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A standard interface for debugger access to message queue information in MPI - all 11

J Cownie, W Gropp - Recent Advances in Parallel Virtual Machine and Message ... - Springer

... from the internals of the MPI library, so that ... provides the debug DLL with a function

for reading ... Therefore a call to the routine mgs update communicator list ...

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[воок] Unix Network Programming - all 20 versions »

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Function and Macro Definitions (Bold page numbers indicate source code implementation)

rnemcpy 81 ... Using and Extending f/ic C++ Standard Template Library David R ...

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... from the LWP allows the user thread library to quickly ... eg, sleep, spin, or other)

is a function of the ... owner of the lock cannot again call mutex enter() for ...

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B Stroustrup - 2000 - research.att.com

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A Transparent Checkpoint Facility On NT - all 4 versions »

J Srouji, P Schuster, M Bach, Y Kuzmin - usenix.org

... and on-demand (through a checkpoint library API call ... mode, the checkpoint API

_chkpt_now() function call creates a ... On receipt of a dump APC call, the checkpoint ...

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гвоок: The C++ Standard Library: a tutorial and reference - all 2 versions »

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... 71 5The Standard Template Library 73 ... 8.3.2 Binary Compose Function Object Adapters

31 8 9 STL Algorithms 321 ... 446 10.2.3 Class queue<> in Detail - 447 ...

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[PS] PORTAL: A communication library for run-time visualization of distributed,

asynchronous data - all 4 versions »

JS Rowlan, BT Wightman - Proceedings of the Scalable High-Performance Computing ... - info mcs.anl.gov ... 3 The PORTAL Parallel Data Library ... until the sending nodes each make a DS AVSinit()

function call. After successful receipt of an DS AVSinit() call from each ...

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D Cheng, R Hood - Proceedings of the 1994 conference on Supercomputing table ..., 1994 - portal acm.org ... a new process is created in a computation, the communication library function that

created the new process should make the fol- lowing call to register ...

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Implementation and performance of a stable storage service in Unix - all 7 versions » F Cristian, S Mishra, YS Hyun - the Proceedings of the 15th IEEE Symposium on Reliable ... - doi.ieeecs.org ... The client library provides the interface func- tions of ... data re- quested in a function call, and (3 ... scheme to atomically update a queue header, described in ... Cited by 11 - Related Articles - Web Search - BL Direct

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... The various on prog library functions are used to ... will receive a pointer to the initial function or queue ... was written to terminate voluntarily after one call. ... Cited by 14 - Related Articles - Web Search

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S Damianakis C Dubnicki

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Computer system using a queuing system and method for managing a queue and

heterogeneous data ... - all 6 versions »

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... 35 The library of queue action function calls 216 operate to manage the queue headers

202, 204 and 206 and is con -nected via line 222 to the queue ...

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VMMC-2: Efficient Support for Reliable, Connection-Oriented Communication - all 12 versions »

C Dubnicki, A Bilas, Y Chen, S Damianakis, K Li - Proc. of the Hot Interconnects Symposium V, 1997 ics.forth.gr

... library makes an ioctl call to pin the required ... of implementing reliable communication at the library level ... 3 presents logP parameters as a function of the ...

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Designing a practical ATM LAN - all 3 versions »

E Biagioni, E Cooper, R Sansom - Network, IEEE, 1993 - ieeexplore.ieee.org

... systems and file servers, to function whenever they ... words that corresponds to the header and payload of ... Aprogrammable queue-reading cir- cuit allows the switch ...

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SOVIA: a user-level sockets layer over virtual interface architecture - all 8 versions »

JS Kim, K Kim, SI Jung - Cluster Computing, 2001. Proceedings. 2001 IEEE ..., 2001 - ieeexplore.ieee.org ... a user- level library called VIPL (VI Provider Library). ... Queue, or by using a blocking

call in which ... Alternatively, a user-defined callback function (a notify ...

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www. gelato. unsw. edu. au

P Chubb - gelato.org

... Most standard library functions aren't available, or have slightly differ- ... A signal is also an asynchronous function call ... Call client callback ...

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[BOOK] The SP2 Communication Subsystem

CB Stunkel... - 1995 - mirror.mcs.anl.gov

... SP1 and SP2 com- munication adapters that function as a ... hardware and software mechanism we call ... This communication library maps the MSMU registers into user ...

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Client-server computing on Shrimp - all 4 versions »

SN Damianakis, A Biles, C Dubnicki, EW Felten - Micro, IEEE, 1997 - ieeexplore ieee.org

... functions in the user-level library with those already present in the libc call was straightforward ... For each function implemented in our library, we renamed ...

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Centralized queue in network printing systems - all 6 versions »

PE Reilly - US Patent 7,167,930, 2007 - Google Patents

... its own print server software and function as a ... includes a client server connection

protocol (CSCP) library ... Thereafter, the network printer will call back the ...

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1 The multics system: an examination of its structure

Elliott I. Organick January 1972 Book **Publisher:** MIT Press

Additional Information: full citation, abstract, references, cited by, index terms

This volume provides an overview of the Multics system developed at M.I.T.--a time-shared, general purpose utility like system with third-generation software. The advantage that this new system has over its predecessors lies in its expanded capacity to manipulate and file information on several levels and to police and control access to data in its various files. On the invitation of M.I.T.'s Project MAC, Elliott Organick developed over a period of years an explanation of the workings, concep ...

2 Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson

January 1983 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(33.56 MB) Additional Information: full citation, abstract, cited by, index terms, review

From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

3 Design and implementation of FMPL, a fast message-passing library for remote

memory operations

Osamu Tatebe, Umpei Nagashima, Satoshi Sekiguchi, Hisayoshi Kitabayashi, Yoshiyuki Hayashida

November 2001 Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '01

Publisher: ACM Press

Full text available: pdf(189.96 KB) Additional Information: full citation, abstract, references, index terms

A fast message-passing library FMPL has been designed and developed to maximize communication performance by utilizing general architectural communication support such as remote memory operations, as well as to maximize total performance by eliminating dynamic communication overhead and overlapping communication and computation. FMPL provides a low-cost general-purpose point-to-point communication and collective communication such as broadcast, barrier synchronization and reduction.

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Wormhole routing techniques for directly connected multicomputer systems



Prasant Mohapatra

September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3

Publisher: ACM Press

Full text available: pdf(340.68 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wormhole routing has emerged as the most widely used switching technique in massively parallel computers. We present a detailed survey of various techniques for enhancing the performance and reliability of wormhole-routing schemes in directly connected networks. We start with an overview of the direct network topologies and a comparison of various switching techniques. Next, the characteristics of the wormhole routing mechanism are described in detail along with the theory behind deadlock-f ...

4.2BSD and 4.3BSD as examples of the UNIX system



John S. Quarterman, Abraham Silberschatz, James L. Peterson December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(4.07 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

Experimental evaluation of SUNOS IPC and TCP/IP protocol implementation Christos Papadopoulos, Gurudatta M. Parulkar

April 1993 IEEE/ACM Transactions on Networking (TON), Volume 1 Issue 2

Publisher: IEEE Press

Additional Information: full citation, references, citings, index terms Full text available: pdf(1.75 MB)

"Topologies"—distributed objects on multicomputers

Karsten Schwan, Win Bo

May 1990 ACM Transactions on Computer Systems (TOCS), Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(3.83 MB)

Additional Information: full citation, abstract, references, citings, index

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1 A software engineering perspective on algorithmics



Karsten Weihe

March 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(1.62 MB)

Additional Information: full citation, abstract, references, index terms, review

An algorithm component is an implementation of an algorithm which is not intended to be a stand-alone module, but to perform a specific task within a large software package or even within several distinct software packages. Therefore, the design of algorithm components must also incorporate software-engineering aspects. A key design goal is adaptability. This goal is important for maintenance throughout a project, prototypical development, and reuse in new, unforseen contex ...

Keywords: algorithm engineering

2 Wormhole routing techniques for directly connected multicomputer systems



Prasant Mohapatra

September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3

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Wormhole routing has emerged as the most widely used switching technique in massively parallel computers. We present a detailed survey of various techniques for enhancing the performance and reliability of wormhole-routing schemes in directly connected networks. We start with an overview of the direct network topologies and a comparison of various switching techniques. Next, the characteristics of the wormhole routing mechanism are described in detail along with the theory behind deadlock-f ...

3 Distributed systems - programming and management: On remote procedure call Patrícia Gomes Soares

November 1992 Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2 CASCON '92

Publisher: IBM Press

Additional Information: full citation, abstract, references, citings Full text available: pdf(4.52 MB)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a



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Software Engineering, IEEE Transactions on

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2. A toolkit for developing multi-user, distributed virtual environments

Codella, C.F.; Jalili, R.; Koved, L.; Lewis, J.B.;

Virtual Reality Annual International Symposium, 1993., 1993 IEEE

18-22 Sept. 1993 Page(s):401 - 407

Digital Object Identifier 10.1109/VRAIS.1993.380752

AbstractPlus | Full Text: PDF(472 KB) IEEE CNF

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3. Performance benchmark results for automated tape library high retrieval rate applications. Digital check image retrievals

Gniewek, J.; Davidson, G.; Caldwell, B.;

Mass Storage Systems, 1999. 16th IEEE Symposium on

15-18 March 1999 Page(s):234 - 240

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Volume 17, <u>Issue 4</u>, July-Aug. 2003 Page(s):46 - 54

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Xiaobing Leng; Lizheng Fu; Guixing Luan;

ATM (ICATM 2001) and High Speed Intelligent Internet Symposium, 2001. Joint 4th IEEE

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